

Hannan E. LaGarry

CURRICULUM VITAE

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CONTACT INFORMATION

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Home: **Ex. 6 Personal Privacy (PP)**

EDUCATION

Regents' (Honors) Diploma, 1980. Norwood-Norfolk Central School, Norwood NY.

B. A. (Geology), 1985. State University of New York @ Potsdam NY (Advisor: W. Kirchgasser).

M. S. (Geology), 1988. Fort Hays State University, Hays KS (Advisor: R. J. Zakrzewski).

Ph. D. (Geology), 1997. University of Nebraska-Lincoln, Lincoln NE (Advisor: R. M. Hunt, Jr.).

CURRENT EMPLOYMENT

2013-present CONSERVATION BIOLOGY INSTRUCTOR/RESEARCHER, Department of Math, Science, & Technology, Oglala Lakota College, Kyle SD. Supervisor: Karla Witt, Chair (605-455-6124)

PAST WORK EXPERIENCE (see BIBLIOGRAPHY for list of publications)

1985 PALEONTOLOGICAL FIELD ASSISTANT, Sternberg Memorial Museum, Hays, Kansas (Supervisor: Dr. Richard J. Zakrzewski).

1985-1987 GRADUATE TEACHING ASSISTANT, Geology Department, Fort Hays State University, Hays, Kansas (Supervisor: Dr. Michael E. Nelson).

1986 PROJECT PALEONTOLOGIST I, Illinois State Museum, Springfield, Illinois (Supervisor: Dr. Russell W. Graham).

1987 INSTRUCTOR OF GEOLOGY, Geology Department, Fort Hays State University, Hays, Kansas (Supervisor: Dr. Kenneth R. Neuhauser).

1988 ADJUNCT INSTRUCTOR, Division of Continuing Studies, Barton County Community College, Great Bend, Kansas (Dean of Continuing Studies).

1988 PROJECT PALEONTOLOGIST III, Illinois State Museum, Springfield, Illinois (Supervisor: Dr. Russell W. Graham).

1988-1989 GRADUATE TEACHING ASSISTANT, Department of Geosciences, University of Nebraska-Lincoln (Supervisor: Dr. Samuel B. Treves).

1989-1990 GRADUATE TECHNICAL ASSISTANT, Department of Geosciences, University of Nebraska-Lincoln (Supervisor: Dr. Eric M. Durrance).

1991-1995 RESEARCH TECHNICIAN III, University of Nebraska State Museum, Lincoln, Nebraska (Supervisor: Dr. Robert M. Hunt, Jr.).

1991-1995 PHYSICAL SCIENCE TECHNICIAN, National Soil Survey Center, USDA Natural Resources Conservation Service (Supervisor: Dr. Carolyn G. Olson).

1996-1997 RESEARCH ASSISTANT II, Nebraska Geological Survey, University of Nebraska-Lincoln (Supervisor: Dr. Perry B. Wigley).

- 1997-1998 RESEARCH GEOSCIENTIST, Nebraska Geological Survey, University of Nebraska-Lincoln (Supervisor: Dr. Mark Kuzila).**
- 1999-2006 ASSISTANT GEOSCIENTIST, Department of Earth and Atmospheric Sciences, University of Nebraska-Lincoln (Dr. Norman D. Smith).**
- 2007-2008 INTERPRETER, Hudson-Meng Bison Kill Site (USFS), Crawford, Nebraska (Supervisor: Dr. Larry Agenbroad).**
- 2008-2009 CONSERVATION BIOLOGY INSTRUCTOR/RESEARCHER, Department of Math, Science, and Technology, Oglala Lakota College (Supervisor: Dr. Gerald Giraud).**
- 2009-2012 CO-CHAIR, Department of Math, Science, and Technology, Oglala Lakota College (Supervisor: Dr. Gerald Giraud).**
- 2012-2013 CHAIR, Department of Math, Science, and Technology, Oglala Lakota College (Supervisor: Dr. Ursula Gaertner).**

ADJUNCT & COURTESY APPOINTMENTS

- 1999-2006 COURTESY FACULTY APPOINTMENT, Department of Earth & Atmospheric Sciences, University of Nebraska-Lincoln.**
- 2006-2008 ADJUNCT PROFESSOR OF GEOSCIENCES, Department of Physical & Life Sciences, Chadron State College, Nebraska.**
- 2010-present ADJUNCT GRADUATE FACULTY, Department of Graduate Studies, Oglala Lakota College, Kyle, South Dakota.**
- 2011-present CURATOR, Oglala Lakota College Center for Science and Technology Collections & Oglala Sioux Tribe Specimen Repository, Kyle, South Dakota.**
- 2012-present EX-OFFICIO MEMBER, Tribal Historical Preservation Advisory Committee, OST Cultural Affairs and Historic Preservation Office, Kyle, South Dakota.**
- 2015-present ADJUNCT SENIOR LECTURER, Department of Civil and Environmental Engineering (Atmospheric and Environmental Sciences Program), South Dakota School of Mines and Technology, Rapid City, South Dakota.**
- 2016-present RESEARCH ASSOCIATE, Department of Nuclear Engineering and Radiological Sciences, University of Michigan-Ann Arbor, Ann Arbor, Michigan.**
- 2016-present RESEARCH ASSOCIATE, Department of Chemistry and Biochemistry, South Dakota State University, Brookings, South Dakota.**

GRANTS & CONTRACTS (~ \$11.6M to date)

- 1991 CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$40,000).**
PRINCIPLE INVESTIGATOR: Nebraska Geological Society's Yatkola-Edwards Research Grant Vertebrate taphonomy and paleoecology in NW Nebraska (\$250).
- 1992 CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$48,000).**
- 1993 CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$42,000).**
- 1994 CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$42,000).**
- 1995 CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$60,000).**
- 1999 CO-INVESTIGATOR (with J. B. Swinehart): US Geological Survey STATEMAP Program Geologic Mapping in NW Nebraska (\$178,000).**

- 2000 CO-INVESTIGATOR (with J. B. Swinehart & R. M. Hunt, Jr.): US Geological Survey STATEMAP Program** Geologic mapping in NW Nebraska (\$192,000).
- 2001 CO-INVESTIGATOR (with J. B. Swinehart & B. E. Bailey): US Geological Survey STATEMAP Program** Geologic mapping in NW Nebraska (\$196,000).
- 2002 CO-INVESTIGATOR (with J. B. Swinehart & B. E. Bailey): US Geological Survey STATEMAP Program** Geologic mapping in NW Nebraska (\$200,000).
- 2003 CO-INVESTIGATOR (with J. B. Swinehart, B. E. Bailey, & R. M. Hunt, Jr.): US Geological Survey STATEMAP Program** Geologic mapping in northwestern Nebraska (\$220,000).
- 2004 CO-INVESTIGATOR (with J. B. Swinehart, R. M. Joeckel, B. E. Bailey, R. M. Hunt, Jr., G. A. Liggett, & R. Lisichenko): US Geological Survey STATEMAP Program** Geologic mapping in northwestern and eastern Nebraska (\$340,000).
- 2005 CO-INVESTIGATOR (with J. B. Swinehart, R. M. Joeckel, M. B. Leite, & R. Lisichenko): U. S. Geological Survey STATEMAP Program** Geologic mapping in northwestern and southeastern Nebraska (\$196,000).
- 2006 CO-INVESTIGATOR (with L. A. LaGarry & M. B. Leite): US Forest Service Region 2 (Hudson-Meng Bison Kill Site)** Holocene geochronology in the vicinity of the Hudson-Meng Bison Kill Site (\$11,200).
- 2007 CO-INVESTIGATOR (with R. Weedon, M. B. Leite, C. McAllister, S. Rolfsmeier, & L. Stewart-Phelps): Chadron State College VISION 2011 Strategic Planning Committee** Laying the groundwork for the second century of the CSC Natural History Museum (\$37,790).
- CO-INVESTIGATOR (with M. B. Leite): Nebraska National Forest** Photogrammetry and casting of the Toadstool Park Trackway Site, Oglala National Grassland, Nebraska (\$15,400).
- 2009 CO-INVESTIGATOR (with G. Giraud): NSF Model Institutions for Excellence Phase III** Modular science, technology, engineering, and mathematics (STEM) course content for sharing among tribal colleges (\$900,000).
- CO-INVESTIGATOR (with C. J. Tinant): NSF Tribal Colleges & Universities Program Phase III** Faculty and curriculum development, scientific collections and library development, and student research support and dissemination (\$2,500,000).
- CO-INVESTIGATOR (with G. Giraud): NSF (South Dakota) Experimental Program for Stimulating Competitive Research R2 T1** Undergraduate research, workforce development, and K-12 outreach (\$875,000).
- 2010 PRINCIPAL INVESTIGATOR: USDA NIFA Tribal College Equity Program** Development of instruction and online curriculum in Agriculture & Natural Resources (\$395,650)
- CO-INVESTIGATOR (with C. J. Tinant): NSF Academic Research Infrastructure/ARRA "Yuowanca Okiya"** laboratory renovations (\$500,000).
- CO-INVESTIGATOR (with C. J. Tinant): National Science Foundation (TCUP), Pre Engineering Educational Collaborative** Pre-engineering curriculum, service learning, and outreach (\$1,250,000).
- 2013 PRINCIPAL INVESTIGATOR: Van Vlack Family Endowment** Digital petrographic microscope (\$7,500).
- 2014 PRINCIPAL INVESTIGATOR: NSF (South Dakota) Experimental Program for Stimulating Competitive Research R2 T1** Cyber informatics, workforce development, and K-12 outreach (\$857,000).
- PRINCIPAL INVESTIGATOR: USDA NIFA Tribal College Equity Program** Development of constructivist curriculum and plant science research (\$406,000).

- 2015 PRINCIPAL INVESTIGATOR (SUPPLEMENT): NSF (South Dakota) Experimental Program for Stimulating Competitive Research R2 T1 Repair of benchtop XRF (\$22,000).**
CO-INVESTIGATOR (with C. J. Tinant, A. Higa, D. Sandoval, M. Brave, & J. Sanovia): NSF Tribal Colleges & Universities Program Phase IV Faculty and curriculum development, scientific collections and library development, and student research support and dissemination **(\$2,489,200).**
- 2016 PRINCIPAL INVESTIGATOR (SUPPLEMENT): NSF (South Dakota) Experimental Program for Stimulating Competitive Research R2 T1 K-12 outreach astronomy and aerospace engineering (\$31,000).**

PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

- 1985-1988 PALEONTOLOGICAL SOCIETY**
1985-2000 SOCIETY OF VERTEBRATE PALEONTOLOGY
1986-2000 KANSAS ACADEMY OF SCIENCE
1987-2000 SIGMA XI
1988-present NEBRASKA ACADEMY OF SCIENCES
2006-2007 ASSOCIATION FOR WOMEN GEOSCIENTISTS
2006-2010 GEOLOGICAL SOCIETY OF AMERICA
2014-present GEOLOGICAL SOCIETY OF AMERICA
2014-present SOUTH DAKOTA ACADEMY OF SCIENCES

SCHOLARSHIPS, HONORS, & AWARDS

- 1980 National Honor Society**
Alumni Fund Scholarship (Norwood-Norfolk Central School Alumni: \$150)
- 1985 Earth Stewardship Award** (Earth Stewardship Council, Washington, DC: \$150)
Graduate Teaching Assistantship (FHSU Department of Earth Sciences: \$2,450)
- 1986 Graduate Teaching Assistantship** (FHSU Department of Earth Sciences: \$3,250)
- 1987 Sigma Xi** (Hays, Kansas Chapter)
- 1988 Distinguished Master's Thesis Award** (Midwestern Council of Graduate Schools)
Graduate Teaching Assistantship (UNL Department of Geology: \$6,000)
- 1989 Graduate Teaching Assistantship** (UNL Department of Geology: \$7,000)
M. C. Green Fieldwork Scholarship (University of Nebraska State Museum: \$1,000)
- 1990 Curatorial Assistantship** (University of Nebraska State Museum: \$7,000)
Student Seminar Award – 1st place (UNL Department of Geology: \$100)
Eunice & T. Mylan Stout Student Paper Award (Nebraska Geological Society: \$50)
M. C. Green Fieldwork Scholarship (University of Nebraska State Museum: \$1,000)
- 1991 Global Climate Change Internship** (USDA NRCS National Soil Survey laboratory)
Eunice & T. Mylan Stout Student Paper Award (Nebraska Geological Society: \$50)
Lincoln Gem & Mineral Club Scholarship (Lincoln Gem & Mineral Club: \$150)
Curatorial Assistantship (University of Nebraska State Museum: \$7,000)
- 1992 Student Seminar Award – 1st place** (UNL Department of Geology: \$100)
Student Paper Award (North-Central Section, Geological Society of America: \$50)

- Curatorial Assistantship** (University of Nebraska State Museum: \$7,000)
- 1993 Curatorial Assistantship** (University of Nebraska State Museum: \$7,000)
- 1994 Student Presentation Travel Award** (UNL Department of Geology: \$250)
- 1996 Volunteer Service Recognition** (Nebraska National Forest)
- Student Presentation Travel Award** (UNL Department of Geology: \$250)
- 1997 Extra Effort Cash Award** (USDA NRCS National Soil Survey Center: \$500)
- 2004 Letter of Commendation** (USDA NRCS: CSD STATEMAP Research Program)
- 2009 Special Invitation Travel Award** (NSF BIO Directorate, 2009 JAM: \$1200)
- 2010 Department Chair of the Year** (Oglala Lakota College)
- Honoring for Reintroduction of the Swift Fox to the Pine Ridge Reservation** (Oglala Sioux Parks & Recreation Authority)
- 2015 Honoring for Service on the OST Tribal Historical Preservation Advisory Council** (Oglala Sioux Tribe Cultural Affairs & Historical Preservation Office)

COLLEGE & UNIVERSITY COURSES TAUGHT

FORT HAYS STATE UNIVERSITY, HAYS, KANSAS

- 1985-1986 Historical Geology laboratory** (1 credit hour, 2 semesters)
- 1985-1986 Invertebrate Paleontology laboratory** (1 credit hour, 2 semesters)
- 1987 Field Methods** (3 credit hours, 1 semester)
- 1987 Field Camp** (6 credit hours, 1 summer session)
- 1987 Structural Geology** (3 credit hours, 1 semester)

BARTON COUNTY COMMUNITY COLLEGE, GREAT BEND, KANSAS

- 1988 Life of the Past** (3 credit hours, 1 semester)

UNIVERSITY OF NEBRASKA-LINCOLN, LINCOLN, NEBRASKA

- 1988-1989 Historical Geology laboratory** (1 credit hour, 2 semesters)
- 1990-1991 Invertebrate Paleontology laboratory** (1 credit hour, 2 semesters)
- 1991-2002 Independent Study in Geology** (3 credit hours, 3 semesters)
- 1992-1995 Physical Geology laboratory** (1 credit hour, 4 semesters)
- 1995-1996 Independent Study in Museum Studies** (3 credit hours, 2 semesters)
- 1998-2005 Regional Field Geology** (1 credit hour, 8 semesters)

CHADRON STATE COLLEGE, CHADRON, NEBRASKA

- 2006 Sedimentology & Stratigraphy** (3 credit hours, 1 semester)
- 2007-2008 Earth Systems Science** (3 credit hours, 3 semesters)

UGLALA LAKOTA COLLEGE, KYLE, SOUTH DAKOTA

- 2008-2015 Groundwater** (3 credit hours, 4 semesters)
- 2008-2009 Introduction to Statistics** (3 credit hours, 3 semesters)
- 2009 Renewable Energy** (3 credit hours, 1 semester)
- 2009 Anatomy & Physiology I** (4 credit hours, 1 semester)
- 2009-2011 Research Methods** (3 credit hours, 2 semesters)
- 2009-2011 Senior Research** (3 credit hours, 2 semesters)
- 2010 Anatomy & Physiology II** (4 credit hours, 1 semester)
- 2010-2014 Physical Geology** (3 credit hours, 4 semesters)
- 2010-2016 Soils I** (3 credit hours, 4 semesters)
- 2011-2015 Historical Geology** (3 credit hours, 4 semesters)
- 2012-2016 Paleontology** (3 credit hours, 1 summer, 1 semester)
- 2013-16 Soils II** (3 credit hours, 3 semesters)
- 2013 Evolution** (3 credit hours, 1 semester)

2013	Mammalogy (3 credit hours, 1 semester)
2013-2014	Human Biology (3 credit hours, 3 semesters)
2014-2016	Fluvial Morphology (3 credit hours, 3 semesters)
2014	Field Ecology (3 credit hours, 1 semester)

RESEARCH INTERESTS

1984-1985	Lake acidification, northern Adirondack Mountains, New York
1984-1985	Ordovician marine paleoecology, Trenton Group of northern New York
1985-present	Taphonomy & paleoecology of Neogene mammals, Nebraska
1985-present	Taxonomy & systematic description of Neogene mammals, Nebraska
1988-present	Biostratigraphy of the Deer Creek Formation (Pennsylvanian), Nebraska
1988-present	Reptiles, amphibians, & lungfish, Eskridge Formation (Permian), Nebraska
1988-present	Taphonomy & paleoecology of Paleogene faunas, Nebraska
1991-present	Cenozoic paleosols of western Nebraska & southwestern South Dakota
1993-present	Cenozoic trace fossils of northwestern Nebraska
1996-present	Cenozoic lithostratigraphy of western Nebraska
1998-present	Cenozoic lithostratigraphy of north-central Nebraska
2008-present	Cenozoic lithostratigraphy of southwestern South Dakota
2008-present	Groundwater and mineral resources of the Pine Ridge Reservation

FIELD EXPERIENCE

1981-1988	Precambrian & early Paleozoic rocks, northern New York State
1984-1985	Limnology of acidified lakes, northern New York State
1984-1985	Early Paleozoic strata, northern New York State
1985-1988	Cretaceous & Neogene rocks & fossils of western Kansas
1985-1988	Late Paleozoic rocks & fossils of eastern Kansas
1986-1987	Paleozoic & Mesozoic strata, Utah & Colorado
1988-1989	Wisconsinian peat bogs, archeology, & vertebrates, northern Illinois
1988-1995	Late Paleozoic rocks & fossils of eastern Nebraska
1989-1990	Paleogene carnivores, Agate Fossil Beds National Monument
1991-2002	Vertebrate fossil resources of the Oglala National Grassland, Nebraska
1996-present	Cenozoic lithostratigraphy & vertebrate paleontology of NW Nebraska & SW South Dakota
1998-present	Cenozoic lithostratigraphy & vertebrate paleontology of north-central Nebraska
1998-present	Cenozoic paleosols & modern soils, northern Great Plains, USA
2000-2005	Pleistocene strata & paleosols of eastern Nebraska
2006-present	Archeology of NW Nebraska & SW South Dakota
2008-present	Groundwater and surface water of NW Nebraska & SW South Dakota

STUDENT RESEARCH SUPERVISED

UNIVERSITY OF NEBRASKA-LINCOLN

- 1989-1992 Michael R. Myers, Department of Geology [independent study].** *"Mortality profiles of Mammuthus imperator (Leidy), Sheridan County, Nebraska."*
- 1989-1992 W. Brantly Wells, Department of Geology [independent study].** *"Vertebrate trace fossils of the Toadstool Park Trackway Site, Oglala National Grassland, Nebraska."*
- 1991-1992 Dennis W. Moser, Department of Geology [class project].** *"Biostratigraphy of the Haynies limestone bed (Pennsylvanian), a compound distal tempestite from southeastern Nebraska" (1992 STUDENT PAPER AWARD, North-Central Section, Geological Society of America).*
- 1991-1992 Steven L. Holmes, Department of Geology [class project].** *"Biostratigraphy of the Haynies limestone bed (Pennsylvanian), a compound distal tempestite from southeastern Nebraska" (1992 STUDENT PAPER AWARD, North-Central Section, Geological Society of America).*
- 1996-1997 April Whitten, Department of Anthropology [MS thesis: LuAnn Wandsnider, Advisor].** *"Late Holocene environments at the Arner Hearth Site, northwestern Nebraska."*
- 1996-1997 Justin A. Kinsley, Department of Museum Studies [Independent Study].** *"A vertebrate coprocoenocis from the Orella Member of the Brule Formation (Oligocene), northwestern Nebraska."*
- 2000-2001 Erin L. Richardson, Department of Anthropology [MS thesis: LuAnn Wandsnider, Advisor].** *"Holocene landscape reconstruction at the Sand Creek Hearth Site, Dawes County, Nebraska, USA."*

UNIVERSITY OF CALIFORNIA-BERKELEY

- 1999-2003 Caroline A. E. Stromberg, Department of Evolutionary and Integrative Biology [Ph. D. dissertation: David A. Lindberg, Advisor].** *"Origin and spread of Tertiary grasslands in North America" (2003 ALFRED SHERWOOD ROMER PRIZE, Society of Vertebrate Paleontology).*

TULANE UNIVERSITY

- 2001-2002 Stephanie G. Thomas, Department of Geology [Independent Study]** *"Lithostratigraphic revision and redescription, White River and Arikaree groups" (UNDERGRADUATE FIELD MENTORSHIP PROGRAM, American Association of State Geologists).*

CHADRON STATE COLLEGE

- 2006-2007 Jennifer L. Balmat, Department of Physical & Life Sciences [Undergraduate Capstone Thesis: Michael B. Leite, advisor]** *"Physical sedimentology of the Hudson-Meng Bison Kill Site, northwestern Nebraska."*
- 2006-2007 Joshua W. Balmat, Department of Physical & Life Sciences [Undergraduate Capstone Thesis: Michael B. Leite, advisor]** *"Buried soils and ancient landscapes at the Hudson-Meng Bison Kill Site, northwestern Nebraska."*

OGLALA LAKOTA COLLEGE

- 2008-2009 Helene Gaddie, Department of Math, Science, & Technology [Senior Research: Hannan E. LaGarry, advisor]** *"New lithostratigraphic correlations of the White River Group from northwestern Nebraska to southwestern South Dakota"*

- 2009** Dylan Brave, Department of Math, Science, & Technology [Junior Research: Hannan E. LaGarry, advisor] *"New vertebrate trackway sites from the White River Group (Late Eocene) of southwestern South Dakota"*
- 2009-2013** Curtis Belile, Department of Math, Science, & Technology [Junior Research: Hannan E. LaGarry, advisor] *"Revised lithostratigraphic correlation of the Arikaree Group in southwestern South Dakota"*
- 2010-2013** Elisha Yellow Thunder, Department of Math, Science, & Technology [Junior/Senior Research: Hannan LaGarry, advisor] *"Stratigraphic and instrumental analysis of point-source and nonpoint-source radionuclide contamination on the Pine Ridge Reservation"* (2011 NATIVE AMERICAN RESEARCH SCHOLAR, Native American Research Center for Health, Seattle WA).
- 2012-2013** Lilly Sanovia, Department of Math, Science, & Technology [Senior Research: Hannan E. LaGarry, advisor] *"A paleontological resource inventory of selected outcrops along the White Clay Fault in southwestern South Dakota"* (2013 GRADUATE RESEARCH FELLOWSHIP, National Science Foundation).
- 2014-present** Patrisse M. Vasek, Department of Math, Science, & Technology [Junior/Senior Research: Hannan E. LaGarry, advisor] *"XRF, XRD, and ICP ES analyses of uranium concentrations in the Late Eocene Chamberlain Pass Formation of northeastern Sioux County, Nebraska"* (2014 NSF RESEARCH EXPERIENCE FOR UNDERGRADUATES, United Tribes Technical College).
- 2014-present** Patrisse M. Vasek, Department of Math, Science, & Technology [Junior/Senior Research: Hannan E. LaGarry, advisor] *"XRF, XRD, and ICP ES analyses of uranium concentrations in the Late Eocene Chamberlain Pass Formation of northeastern Sioux County, Nebraska"* (2014 NSF RESEARCH EXPERIENCE FOR UNDERGRADUATES, United Tribes Technical College).
- 2015-present** Joni K. Tobacco, Department of Math, Science, & Technology [Senior Research: Hannan E. LaGarry, advisor] *"Revised soil to sediment correlations, Fall River and Oglala Lakota counties, South Dakota"* (2015 SUMMER RESEARCH FELLOWSHIP, American Indian College Fund).
- 2015-present** Patrisse M. Vasek, Department of Math, Science, & Technology [Junior/Senior Research: Hannan E. LaGarry, advisor] *"Remotely sensed geological lineaments as potential structural features and contaminant pathways for unconfined ISL leachate, Fall River and Custer counties, South Dakota."*
- 2016-present** Patrisse M. Vasek, Department of Math, Science, & Technology [Junior/Senior Research: Hannan E. LaGarry, advisor] *"Environmental assessment of toxic heavy metal contaminants in NW Nebraska and SW South Dakota."* (2016 NSF RESEARCH EXPERIENCE FOR UNDERGRADUATES, Black Hills State University).

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

- 2015-present** Ulrike Werner, Department of Civil and Environmental Engineering [MS Thesis: Hannan E. LaGarry, co-advisor with W. Capehart], *"Atmospheric concentrations of toxic heavy metals, Pine Ridge Reservation, South Dakota."*

BLACK HILLS STATE UNIVERSITY

- 2016-present** Camille Griffith, Department of Biology (Integrative Genomics) [MS Thesis: Graduate Committee Member] *"Landscape ecology and genetics of the ornate box turtle (Terrapene ornata) from southwestern South Dakota."*

STUDENTS EMPLOYED

1989-1992	Michael R. Myers (undergraduate in Geology), University of Nebraska-Lincoln. Vertebrate fossil resource inventories of the Oglala National Grassland.
1989-1995	W. Brantly Wells (undergraduate in Geology), University of Nebraska-Lincoln. Vertebrate fossil resource inventories of the Oglala National Grassland.
1989-1995	Chris E. Rudnick (graduate in Geology), University of Nebraska-Lincoln. Vertebrate fossil resource inventories of the Oglala National Grassland.
1991-1992	Daryl K. Pavey (undergraduate in Biology), University of Nebraska-Lincoln. Vertebrate fossil resource inventories of the Oglala National Grassland.
1993-1994	Michelle K. David (graduate in Geology), Fort Hays State University. Vertebrate fossil resource inventories of the Oglala National Grassland.
1994-1995	Carrie L. Herbel (graduate in Geology), University of Nebraska-Lincoln. Vertebrate fossil resource inventories of the Oglala National Grassland.
1996-1997	David L. Dyer (graduate in Museum Studies), University of Nebraska-Lincoln. Curated White River Group vertebrate fossils from northwestern Nebraska.
1996-1997	Justin A. Kinsley (undergraduate in Museum Studies), University of Nebraska-Lincoln. Curated White River Group vertebrate fossils from northwestern Nebraska.
2002-2003	Stephanie G. Thomas (undergraduate in Geology), Tulane University. Geologic mapping (STATEMAP) in northwestern Nebraska.
2007	Jennifer L. Balmat (undergraduate in Geology), Chadron State College. Renovation of the Eleanor Barbour Cook Museum of Geology.
2007	Joshua W. Balmat (undergraduate in Geology), Chadron State College. Renovation of the Eleanor Barbour Cook Museum of Geology.
2008-2009	Helene Gaddie (undergraduate in Natural Science), Oglala Lakota College. Lithostratigraphy of the White River Group in SW South Dakota.
2009	Dylan Brave (undergraduate in Natural Science), Oglala Lakota College. Fossil mammal trackways of the White River Group, South Dakota.
2009-2013	Elisha Yellow Thunder (undergraduate in Natural Science), Oglala Lakota College. Uranium contamination in southwestern South Dakota.
2009-2012	Curtis Belile (undergraduate in Natural Science), Oglala Lakota College. Uranium contamination and lithostratigraphy in southwestern South Dakota.
2012	Sheronne White (undergraduate in Natural Science), Oglala Lakota College, Curation of vertebrate fossils of the Pine Ridge Reservation.
2013-2014	Edwina Fills the Pipe (undergraduate in Life Sciences), Oglala Lakota College, Curation of vertebrate fossils of the Pine Ridge Reservation.
2014	Jacob Ferguson (undergraduate in Natural Science), Oglala Lakota College, review of drillers' logs and notes in Oglala Sioux Tribe/Consolidated Intervenor vs. Powertech.
2014	Camille Griffith (undergraduate in Natural Science), Oglala Lakota College, review of drillers' logs and notes in Oglala Sioux tribe/Consolidated Intervenor vs. Powertech.
2014	Patrisse Vasek (undergraduate in Natural Science), Oglala Lakota College, review of drillers' logs and notes in Oglala Sioux tribe/Consolidated Intervenor vs. Powertech.

- 2015-present** **Patrisse M. Vasek (undergraduate in Natural Science), Oglala Lakota College, SD EPSCoR blogger and student correspondent-at-large.**
- 2015** **Michele LeBeau (undergraduate in Natural Science), Oglala Lakota College,**
development of a uranium contamination literature database.

SERVICE TO PROFESSIONAL ORGANIZATIONS

- 1992** **TECHNICAL SESSION CONVENER:** 7th Annual Meeting of the Society for the Preservation of Natural History Collections, Lincoln, Nebraska.
EARTH SCIENCE SECTION CHAIR: 102nd Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 1995** **SYMPOSIUM CO-CONVENER (with D. O. Terry, Jr. & R. M. Hunt, Jr.):** *Depositional Environments, Lithostratigraphy, and Biostratigraphy of the White River and Arikaree Groups.* 29th Annual Meeting of the North & South-Central Sections, Geological Society of America, Lincoln, Nebraska.
FIELD TRIP CO-LEADER (with D. O. Terry, Jr.): *The White River Group Revisited: Vertebrate Trackways, Ecosystems, and Stratigraphic Revision, Redefinition, and Redescription.* 29th Annual Meeting of the North & South Central Sections of the Geological Society of America, Lincoln, Nebraska.
- 1996** **FIELD TRIP CO-LEADER (with D. O. Terry, Jr., R. Benton, & E. Evanoff):** *Hayden's Lakes Revisited: The Origin and New Stratigraphic interpretations of the White River Sequence, South Dakota, Nebraska, and Wyoming.* 1996 Annual Meeting of the Geological Society of America, Denver, Colorado.
- 1998** **FIELD TRIP CO-LEADER (with B. A. Beasley):** *Fossil Resource Management of the Oglala National Grassland and the Toadstool Park Trackway Site.* 5th Conference on Fossil Resources, Rapid City, South Dakota.
- 1999** **EARTH SCIENCE SECTION CO-CHAIR (with S. Tucker):** 109th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
DEHNER AWARD JUDGE (posters): 131st Annual Meeting of the Kansas Academy of Science, Manhattan, Kansas.
- 2000** **SYMPOSIUM CO-CONVENER (with E. L. Richardson):** *Nebraska Stratigraphy,* 110th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
EARTH SCIENCE SECTION CO-CHAIR (with A. Carter): 110th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2002** **EUNICE & T. MYLAN STOUT STUDENT PAPER AWARD JUDGE (platform):** 112th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
DEHNER AWARD JUDGE (platform): 134th Annual Meeting of the Kansas Academy of Science, Hays, Kansas.
- 2003** **EUNICE & T. MYLAN STOUT STUDENT PAPER AWARD JUDGE (platform):** 113th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2004** **NEBRASKA GEOLOGICAL SOCIETY STUDENT PAPER AWARD JUDGE (platform):** 114th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2005** **NEBRASKA GEOLOGICAL SOCIETY STUDENT PAPER AWARD JUDGE (platform):** 115th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2006** **NEBRASKA GEOLOGICAL SOCIETY STUDENT PAPER AWARD JUDGE (platform):** 116th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2007** **EARTH SCIENCE SECTION CHAIR:** 117th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.

- FIELD TRIP CO-LEADER (with L. A. LaGarry, M. P. Muniz, & L. D. Agenbroad):**
Geoarcheology of the Hudson-Meng Bison Kill Site, Oglala National Grassland, Nebraska. 65th Annual Meeting of the Plains Anthropological Society, Rapid City, South Dakota.
- 2008 NEBRASKA GEOLOGICAL SOCIETY STUDENT PAPER AWARD JUDGE (platform):**
 118th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2012 NEBRASKA GEOLOGICAL SOCIETY STUDENT PAPER AWARD JUDGE (platform):**
 122nd Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.

SERVICE TO FEDERAL, STATE, & TRIBAL AGENCIES

- 1992 TRAINING CONTENT PROVIDER: “Paleontological resources of the Oglala National Grassland,”** US Forest Service (Region 2), US Forest Service Regional Team Leadership Meeting, Nebraska National Forest, Chadron, Nebraska.
- 1993-2004 NORTH AMERICAN GEOLOGIC-MAP DATA MODEL SCIENCE-LANGUAGE TECHNICAL TEAM, Sedimentary & Surficial Deposits subgroups,** US Geological Survey National Geologic Mapping Working Group Steering Committee.
- 2004 TRAINING CONTENT PROVIDER: Petrocalcic soils tour of the north-central Great Plains (with J. Wilson & P. Young).** NRCS National Soil Survey Laboratory, USDA Natural Resources Conservation Service, Lincoln, Nebraska.
- 2008 TRAINING CONTENT PROVIDER: “Uranium and water on the Pine Ridge Reservation,”** Oglala Sioux Tribe/Tribal Agency Tech Team open meeting, OST Natural Resources Regulation Agency, Prairie Wind Casino, Oglala, South Dakota
- 2009 TRIBAL COLLEGES & UNIVERSITIES INFORMATION AND PLANNING MEETING,** National Science Foundation BIO Directorate, Washington, DC.
RESEARCH EXPERIENCES FOR UNDERGRADUATES PROGRAM WORKSHOP FACILITATOR (with L. Patino), Tribal Colleges & Universities Program Leadership Conference, National Science Foundation, Albuquerque, New Mexico
- 2009-2010 OGLALA SIOUX TRIBE’S TRIBAL NATIONAL PARK PLANNING AND STEERING COMMITTEE,** with participation from the Oglala Sioux Tribe, Oglala Lakota College, OST Natural Resources Regulation Agency, Oglala Sioux Parks & Recreation Authority, OST Tribal Historical Preservation Office, and Badlands National Park
- 2009-present AD HOC GRANT PROPOSAL REVIEWER,** National Science Foundation, Arlington, Virginia.
- 2011 TRAINING CONTENT PROVIDER: “Paleontological Resources on the Pine Ridge Reservation,”** Oglala Sioux Tribe/Regional Tribal Historical Preservation offices open meeting, OST Natural Resources Regulation Agency, Prairie Wind Casino, Oglala, South Dakota
- 2012 TRAINING CONTENT PROVIDER: “Paleontological Resources on the Pine Ridge Reservation,”** Oglala Sioux Tribal Council/Oglala Sioux Parks & Recreation Authority, OST Transit Authority Conference Room, Pine Ridge, South Dakota
- 2012-present PLANNING COMMITTEE FOR THE DEVELOPMENT OF A NATIVE AMERICAN CURRICULUM IN TRAVEL, TOURISM, AND INTERPRETATION,** Oglala Lakota College/Badlands National Park/Steven F. Austin University.

- 2012-present** **SOUTH DAKOTA EPSCoR REACH COMMITTEE**, National Science Foundation (South Dakota) EPSCoR Program (J. Rice, Director), South Dakota State University, Brookings, South Dakota.
- 2014** **PANEL PRESENTER: “Is OSSPEEC accomplishing what it set out to do and meeting our expectations?”** Engineering the future: NSF Pre-Engineering Educational Collaboratives (PEEC) Workshop, Minneapolis, Minnesota.
- PANEL PRESENTER: “OSPEEC”** Engineering the future: NSF Pre-Engineering Educational Collaboratives (PEEC) Workshop, Minneapolis, Minnesota.
- 2014-2016** **SOUTH DAKOTA EPSCoR STUDENT RESEARCH SYMPOSIUM STUDENT PAPER AWARD JUDGE (posters)**, National Science Foundation (South Dakota) EPSCoR Program (J. Rice, Director), Pierre, South Dakota.
- 2015** **TRAINING CONTENT PROVIDER: “Cultural resources on the Pine Ridge Reservation,”** OST Cultural Affairs & Historical Preservation Office Cultural Resource Protection, NAGPRA, Historic Preservation Training, Prairie Wind Casino, Pine Ridge Reservation.
- TRAINING CONTENT PROVIDER: “Inventory and monitoring of the Oglala National Grassland,”** OST Cultural Affairs & Historical Preservation Office Cultural Resource Protection, NAGPRA, Historic Preservation Training, Prairie Wind Casino, Pine Ridge Reservation.
- TRAINING CONTENT PROVIDER: “Surface and subsurface distributions of uranium-bearing strata in NW Nebraska and SW South Dakota,”** OST Cultural Affairs & Historical Preservation Office Cultural Resource Protection, NAGPRA, Historic Preservation Training, Prairie Wind Casino, Pine Ridge Reservation.
- PANEL REVIEWER: Presidential Awards for Excellence in Science, Math, and Engineering Mentorship**, National Science Foundation, Arlington, Virginia.
- PRESENTER: SD EPSCoR R2 T1 “2020 VISION” Reverse Site Visit**, National Science Foundation, Arlington, Virginia.

SERVICE TO COLLEGES & UNIVERSITIES

- 2007-2008** **FACULTY MENTOR (with 6 others), “People, Planet, & Prosperity”** Environmental Protection Agency (student) Sustainability Design Competition, Chadron State College, Chadron, Nebraska.
- 2008** **MANUSCRIPT REVIEWER (with 3 others), “Outside the Lines”** student essay competition and published volume, Chadron State College, Chadron, Nebraska.
- 2008-2009** **INSTRUCTIONAL AFFAIRS COMMITTEE, Distance Learning Subcommittee**, Oglala Lakota College, Kyle, South Dakota.
- 2008-2009** **HIGHER LEARNING COMMISSION FOCUS VISIT TASK FORCE, faculty representative**, Oglala Lakota College, Kyle, South Dakota.
- 2008-2013** **INSTITUTIONAL (RESEARCH) REVIEW BOARD, Department of Math, Science, & representative**, Oglala Lakota College, Kyle, South Dakota.
- 2009** **GRADUATE STUDY ADVISORY GROUP**, Oglala Lakota College, Kyle, South Dakota.
- SPOKESPERSON AND PRESENTER: “Oglala Lakota College Department of Math, Science, & Technology: the year in review,”** Oglala Lakota College Annual Faculty Retreat, Rapid City, South Dakota.
- SPOKESPERSON AND PRESENTER: “Oglala Lakota College Department of Math, Science, & Technology: the year in review,”** Oglala Lakota College Board of Trustees Annual Retreat, Rapid City, South Dakota.

- ALL-FACULTY MEETING SPECIAL PRESENTATION: “*Water and uranium on the Pine Ridge Reservation*,”** Piya Wiconi Administrative Campus, Oglala Lakota College, Kyle, South Dakota.
- 2009-2013** **RESERVATION-WIDE K-12 SCIENCE FAIR JUDGE,** Piya Wiconi Administrative Campus, Oglala Lakota College, Kyle, South Dakota.
- 2011-2012** **HIGHER LEARNING COMMISSION ACCREDITATION SELF-STUDY COMMITTEE, Research and Creative Activity,** Oglala Lakota College, Kyle, South Dakota
- 2013-2014** **CHAIR, INSTITUTIONAL (RESEARCH) REVIEW BOARD,** Oglala Lakota College, Kyle, South Dakota.
- 2014** **FACULTY DEVELOPMENT COMMITTEE,** Oglala Lakota College, Kyle, South Dakota.
- 2015-2016** **CHAIR, FACULTY DEVELOPMENT COMMITTEE,** Oglala Lakota College, Kyle, South Dakota.

SERVICE TO ACADEMIC DEPARTMENTS & STUDENT ORGANIZATIONS

- 1983** **SECRETARY, Students for Environmental Awareness,** State University of New York @ Potsdam, Potsdam, New York.
- 1984-1985** **VICE PRESIDENT, Students for Environmental Awareness,** State University of New York @ Potsdam, Potsdam, New York.
- 1984-1985** **GEOLOGY CLUB, Student Member,** Geology Department, State University of New York @ Potsdam, Potsdam, New York.
- 1985-1988** **STERNBERG GEOLOGY CLUB, Student Member,** FHSU Dept. of Earth Sciences.
- 1988-1993** **GEOLOGY CLUB, Student Member,** UN-L Department of Geosciences.
- 1993-1995** **STUDENT REPRESENTATIVE AT FACULTY MEETINGS,** Department of Geosciences, University of Nebraska-Lincoln.
- 2006-2007** **GEOLOGY CLUB, Faculty Member,** Chadron State College.
- 2009** **PANEL PRESENTER: “*Student participation in research at OLC’s Department of Math, Science, & Technology*,”** Native Science Field Center Program National Leadership Conference, Rapid City, South Dakota.
- 2009-2013** **PANEL PRESENTER: “*Student research opportunities in the OLC Department of Math, Science, & Technology*,”** Department of Math, Science, & Technology Student Intern Meeting, Oglala Lakota College’s Piya Wiconi Administrative Campus, Kyle, South Dakota.
- 2010-2013** **K-12 CONTENT PROVIDER: K-12 Science Exploratorium,** Department of Math, Science, & Technology, Lakota Nation Invitational Basketball Tournament, Civic Center, Rapid City, South Dakota.
- 2014** **FIELD TRIP CO-LEADER (with K. Costion & M. Englehart): “*Precolonial sacred sites and petroglyphs at Hell Canyon, Custer National Forest, South Dakota*,”** OLC Department of Math, Science, and Technology/Custer National Forest.
- FIELD TRIP CO-LEADER (with K. Costion & M. Englehart): “*Precolonial lithic scatters and sacred sites of Cascade Canyon, Custer National Forest, South Dakota*,”** OLC Department of Math, Science, and Technology/Custer National Forest.
- 2015** **FIELD TRIP CO-LEADER (with K. Costion & M. Englehart): “*Precolonial petroglyphs and pictographs at Craven Canyon, Custer National Forest*,**

South Dakota,” OLC Department of Math, Science, and Technology/Custer National Forest.

CONTENT PROVIDER: SD EPSCoR Little Shop of Physics, Department of Math, Science, & Technology, Lakota Nation Invitational Basketball Tournament, Civic Center, Rapid City, South Dakota.

- 2016 MODERATOR (with Deig Sandoval): “Crying Earth, Rise Up!”** Special Film Presentation, UM-Ann Arbor Department of Nuclear Engineering and Radiological Sciences/Consortium for Verification Technology, Ann Arbor, Michigan.

SERVICE TO COMMUNITY & NONPROFIT ORGANIZATIONS

- 1993 FIELD TRIP CO-LEADER (with L. A. LaGarry & D. A. Nixon),** Nebraska Rocks! Homestead Council, Girl Scouts of America.
- 2008 EXPERT OPINION: “Geological and hydrological implications of proposed Crow Butte Resources’ North Trend Expansion of in-situ leach mining north of Crawford, Nebraska,”** provided to Western Nebraska Resources Council, Owe Aku, and concerned residents <http://savecrowbutte.org/files/Crow%20Butte%20LBP-08-06%20042908.pdf>
- PROGRAM CHAIR & MODERATOR: Our water, our future: a hard look at the dry facts,** Town Hall Meeting, Chadron State College Student Center Ballroom, Chadron, Nebraska.
- EXPERT OPINION: “Geology, groundwater resources, and implications of Crow Butte Resources’ continued in-situ leach mining north of Crawford, Nebraska,”** provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe <http://plentyinternational.wordpress.com/2008/07/31/expert-opinion-regarding-isl-mining-in-dawes-county-nebraska/>
- 2009 PROGRAM CO-CHAIR (with Darwin Apple) & MODERATOR: Informational meeting between Oglala Lakota College and renewable energy development experts,** Oglala Lakota College MIE (Math & Science Department) Conference Room, Kyle, South Dakota
- 2010 EXPERT OPINION: “Expert opinion regarding the proposed Dewey-Burdock Project ISL mine near Edgemont, South Dakota,”** provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe <http://pbadupws.nrc.gov/docs/ML1006/ML100680016.pdf>
- 2012 EXPERT OPINION: “Expert opinion on the environmental safety of in-situ leach mining of uranium near Marsland, Nebraska,”** provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe <http://pbadupws.nrc.gov/docs/ML1302/ML13029A806.pdf>
- 2014 EXPERT ORAL TESTIMONY: Atomic Safety and Licensing Board,** provided on behalf of the Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe vs. Crow Butte Resources/Nuclear Regulatory Commission. http://www.powertechexposed.com/2014.08.21%20Transcript%20ASLB%20hearing_ML14238A184.pdf
- EXPERT TESTIMONY: “Declaration of Dr. Hannan LaGarry,”** provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe vs. Powertech/Nuclear Regulatory Commission before the Atomic Safety and Licensing Board. <http://pbadupws.nrc.gov/docs/ML1428/ML14282A870.pdf>
- EXPERT TESTIMONY: “Supplemental declaration of Dr. Hannan LaGarry,”** provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe vs. Powertech/Nuclear Regulatory Commission before the Atomic Safety and Licensing Board. <http://pbadupws.nrc.gov/docs/ML1431/ML14311B006.pdf>

EXPERT TESTIMONY: *“Written supplemental testimony of Dr. Hannan LaGarry,”* provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe vs. Powertech/Nuclear Regulatory Commission before the Atomic Safety and Licensing Board. <http://pbadupws.nrc.gov/docs/ML1432/ML14325A866.pdf>

- 2015** **EXPERT OPINION:** *“Supplemental expert opinion regarding the renewal of ISL uranium mining (Crow Butte Resources) near Crawford, Nebraska,”* provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe vs. Crow Butte Resources/Nuclear Regulatory Commission before the Atomic Safety and Licensing Board. <http://online.swc.tc/peec/wp-content/uploads/2015/03/LAGARRY-UPDATED-CBR-OPINION-2015.pdf>

EXPERT TESTIMONY: *“Additional testimony regarding lineaments, joints, and faults as contaminant pathways near Crawford, Nebraska (Crow Butte Resources ISL facility),”* provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe vs. Crow Butte Resources/Nuclear Regulatory Commission before the Atomic Safety and Licensing Board. <http://pbadupws.nrc.gov/docs/ML1523/ML15239B098.pdf>

EXPERT ORAL TESTIMONY: *before the Atomic Safety and Licensing Board,* provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe vs. Crow Butte Resources/Nuclear Regulatory Commission. <http://pbadupws.nrc.gov/docs/ML1524/ML15240A397.pdf>

SUPPLEMENTAL EXPERT TESTIMONY: *“Supplemental testimony of Dr. Hannan LaGarry,”* provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe vs. Crow Butte Resources/Nuclear Regulatory Commission before the Atomic Safety and Licensing Board.

SUPPLEMENTAL EXPERT ORAL TESTIMONY: *before the Atomic Safety and Licensing Board,* provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe vs. Crow Butte Resources/Nuclear Regulatory Commission.

GUEST SPEAKER: *“Using scats and coprolites in natural history research,”* Red Cloud Indian School after school programs, Dakota Horizons Council, Girl Scouts of America.

PROFESSIONAL CONFERENCES ATTENDED (dates)

American Association for the Advancement of Science (1988)
Cenozoic Vertebrate Tracks and Traces Conference (2007)
Conference on Fossil Resources (1992, 1994, 1998, 2011)
Digital Mapping Techniques Conference (2000)
First Americans Land Grant Consortium (2014)
Geological Society of America (1994, 1996, 1999, 2006-07, 2013)
Geological Society of America (Northeast Section) (1984)
Geological Society of America (North-Central Section) (1992, 1995, 2014)
Geological Society of America (Rocky Mountain Section) (1997, 2011)
Island in the Plains Historical & Archeological Symposium (2006-07)
Kansas Academy of Science (1987-88, 1991-92, 1994, 1999, 2001-02)
National Science Foundation Joint Annual Meeting (2009)
Nebraska Academy of Sciences (1989-93, 1995-2000, 2002-08, 2012)
North American Paleontological Convention (2001)

Northern Plains Governors' Conference (1992)
 Plains Anthropological Society (2006-07)
 SD EPSCoR All-Investigators Meeting (2014, 2016)
 Society of Vertebrate Paleontology (1985, 1987, 1991-93)
 Society for the Preservation of Natural History Collections (1992, 2013)
 South Dakota Academy of Sciences (2014)
 South Dakota EPSCoR Student Research Symposium (2014-16)
 Western South Dakota Hydrology Conference (2009-10)

PROFESSIONAL DEVELOPMENT ACTIVITIES

- 1991 LABORATORY EXERCISES IN PALEOPEDODOLOGY (Instructor: G. Retallack),** University of Nebraska-Lincoln Department of Geology, Lincoln, Nebraska.
- 1999 DIGITAL MAPPING METHODS: ACCURATE DIGITAL DATA CAPTURE AND ANALYSIS FOR THE FIELD GEOSCIENTIST,** Geological Society of America short course, Denver, Colorado.
- 2008 QUALITY EDUCATION FOR MINORITIES NETWORK GRANT-WRITING WORKSHOP,** National Science Foundation (Research in Disabilities Education Program), Washington, D.C.
- NATIONAL SCIENCE FOUNDATION TRIBAL COLLEGE WORKSHOP,** NSF Office of Budget, Finance, & Award Management (Division of Institution & Award Support), Arlington, Virginia.
- 2009 UNCFSP TRIBAL COLLEGE TECHNICAL ASSISTANCE TRAINING,** United Negro College Fund Special Projects unit, Albuquerque, New Mexico.
- FUNDING OPPORTUNITIES (NSF BIO DIRECTORATE),** National Science Foundation 2009 Joint Annual Meeting, Washington, DC.
- SPECIAL NETWORKING SESSION (NSF BIO DIRECTORATE),** National Science Foundation 2009 Joint Annual Meeting, Washington, DC.
- TRIBAL COLLEGES & UNIVERSITIES PROGRAM LEADERSHIP CONFERENCE,** National Science Foundation (Division of Education & Human Resources), Albuquerque, New Mexico.
- INCORPORATING NATIVE CULTURE INTO THE STEM CURRICULUM,** National Science Foundation (Tribal Colleges & Universities Program/Quality Education for Minorities Network), Albuquerque, New Mexico.
- 2013 INSTITUTIONAL EFFECTIVENESS WORKSHOP,** Office of Institutional Research and Assessment, Oglala Lakota College, Kyle, South Dakota.
- ACADEMIC COACHING SKILLS TRAINING,** Office of Enrollment Management, Oglala Lakota College, Kyle, South Dakota.
- 2014 ASSESSMENT DATA COLLECTION, ENTRY, AND REPORTING,** Offices of the Vice President for Instruction, Institutional Research and Assessment, and Enrollment Management, Oglala Lakota College, Kyle, South Dakota.
- STRATEGIC PLANNING,** Offices of the Vice President for Instruction, Institutional Research and Assessment, and Enrollment Management, Oglala Lakota College, Kyle, South Dakota.
- INSTITUTIONAL EFFECTIVENESS AND ASSESSMENT PLANS,** Offices of the Vice President for Instruction, Institutional Research and Assessment, and Enrollment Management, Oglala Lakota College, Kyle, South Dakota.

PROGRAM LEARNING OUTCOMES & RUBRIC DEVELOPMENT (Instructors: J. Pease, G. Gagnon, & D. Frank), Institutional Research and Assessment, Oglala Lakota College, Kyle, South Dakota.

HIGHER LEARNING COMMISSION LIAISON VISIT (Presenter: A. Sweeney), Higher Learning Commission of the North Central Association of Colleges and Schools, Chicago, Illinois.

SUPERVISOR AND LEADERSHIP TRAINING (Facilitator: G. Kitsopoulos), Offices of the Vice President for Instruction, Institutional Research and Assessment, and Enrollment Management, Oglala Lakota College, Kyle, South Dakota.

- 2015 CULTURAL RESOURCE PROTECTION, NAGPRA, AND HISTORIC PRESERVATION TRAINING: “Protecting Our Identity in the Land,”** Oglala Sioux Tribe Cultural Affairs & Historical Preservation Office, Prairie Wind Casino, Pine Ridge Reservation.

INVITED PUBLIC LECTURES

- 1994 “Mapping vertebrate fossil resources in northwestern Nebraska”** Stout Lecture Series, Department of Geology, University of Nebraska-Lincoln, Lincoln, Nebraska.
- 1996 “The geology of Nebraska north of the Pine Ridge”** CHAUTAUQUA '96, Chadron/Dawes County Chamber of Commerce, Chadron, Nebraska.
- 1999 “New stratigraphic classification of the ‘basal Chadron Formation’ of northwestern Nebraska”** Crawford Rock Club Annual Rock & Fossil Swap, Crawford, Nebraska.
- 2002 “Late Cretaceous and early Tertiary stratigraphy of the French Creek agate locality near Fairburn, South Dakota” (with L. A. LaGarry)** 54th Annual Lincoln Gem & Mineral Show, Lincoln, Nebraska.
- 2003 “Diet and behavior in fossil carnivores”** Friends of the Prehistoric Prairies Discovery Center Annual Meeting, Crawford, Nebraska.
- 2004 “Recent advances in the Tertiary stratigraphy of Nebraska”** Water Center Seminar Series, School of Natural Resources, University of Nebraska-Lincoln, Lincoln, Nebraska.
“Tracks and trails from the Tertiary of Nebraska” (with W. B. Wells) Nebraska Geological Society, Omaha, Nebraska.
- 2005 “Recent research at Agate Fossil Beds National Monument”** 40th Anniversary Celebration Program, Agate Fossil Beds National Monument, Nebraska.
- 2006 “Geological survey (1996-2006) in northwestern Nebraska”** 2nd Annual Earth Day Celebration, Chadron State College, Chadron, Nebraska.
- 2008 “Introduction and agenda - Our Water, Our Future: A Hard Look at the Dry Facts”** Town Hall Meeting, Chadron State College Student Center Ballroom, Chadron, Nebraska.
“Geology and groundwater resources of northwestern Nebraska and southwestern South Dakota” (with L. A. LaGarry) Oglala Sioux Tribe Natural Resources Regulatory Agency meeting, Pine Ridge, South Dakota.
“Oglala Lakota College’s potential role in managing the vertebrate fossil resources of the Pine Ridge Reservation” Oglala Sioux Parks & Recreation Authority public information meetings in Red Shirt and Kyle, South Dakota.
- 2009 “Uranium and uranium mining in southwestern South Dakota”** DNERS Colloquium, Department of Nuclear Engineering and Radiological Sciences, University of Michigan-Ann Arbor, Ann Arbor, Michigan.
“The local uranium mining scene” Western Mining Action Network Annual Meeting (Defenders of the Black Hills), Rapid City, South Dakota.
- 2012 “Uranium and groundwater on the Pine Ridge Reservation”** American Indian Science and Engineering Society, Black Hills State University, Spearfish, South Dakota.

- 2013 ***“Uranium mining in western South Dakota”*** Dakota Rural Action Network Teach-in 2, Spearfish, South Dakota.
- 2014 ***“Recent advances in environmental science research at Oglala Lakota College”*** American Indian Awareness Week Speaker Series, Black Hills State University Native American Awareness Week, Spearfish, South Dakota.
- 2016 ***“The Crow Butte in situ leach uranium mine: environmental implications” (with Patrisse Vasek and Jordon Cano)*** Special Presentation, Department of Nuclear Engineering and Radiological Sciences/Consortium for Verification Technology/Health Physics Society Student Branch, University of Michigan-Ann Arbor, Ann Arbor, Michigan.
- “Undergraduate research on radiation and radionuclides at Oglala Lakota College from 2008-2016”*** DNERS Colloquium, Department of Nuclear Engineering and Radiological Sciences/Consortium for Verification Technology, University of Michigan-Ann Arbor, Ann Arbor, Michigan.

PERMITS & AUTHORIZATIONS

- 1990 **SPECIAL-USE PERMIT (3 years, User Number 2033)** Nebraska National Forest, Chadron, Nebraska. Permission to excavate federally owned and protected vertebrate fossils from the Oglala National Grassland during dissertation fieldwork and paleontological resource inventories.
- 1991-1995 **ARCHEOLOGICAL SITE EVALUATION CLEARANCE** Nebraska National Forest, Chadron, Nebraska. Clearance to assess potential archeological sites during dissertation fieldwork and paleontological resource inventories of the Oglala National Grassland.
- 1993 **SPECIAL-USE PERMIT RENEWAL (User Number 2033-4)** Nebraska National Forest, Chadron, Nebraska. Permission to excavate federally owned and protected vertebrate fossils from the Oglala National Grassland during dissertation fieldwork and paleontological resource inventories.
- 1994-1995 **SPECIAL-USE PERMIT (3 years, User Number 2033-4)** Nebraska National Forest, Chadron, Nebraska. Permission to excavate federally owned and protected vertebrate fossils from the Oglala National Grassland during dissertation fieldwork and paleontological resource inventories.
- 1998-2000 **ARCHEOLOGICAL SITE EVALUATION CLEARANCE** Nebraska National Forest, Chadron, Nebraska. Clearance to assess potential archeological sites during STATEMAP fieldwork in the Pine Ridge Ranger District, Dawes County, Nebraska.
- 1998-2000 **SPECIAL-USE PERMIT (3 years, User Number 2033-4)** Nebraska National Forest, Chadron, Nebraska. Permission to excavate federally owned and protected vertebrate fossils from the Pine Ridge Ranger District, Dawes County, Nebraska, during STATEMAP fieldwork.
- 1998-2000 **SPECIAL-USE PERMIT (3 years, User Number 2033-4)** Nebraska National Forest, Chadron, Nebraska. Permission to trench covered or weathered exposures and collect rock and volcanic ash samples from the Pine Ridge Ranger District, Dawes County, Nebraska, during STATEMAP fieldwork.

MISCELLANEOUS

DOCUMENTARY FILM APPEARANCES

- 2015 **CRYING EARTH RISE UP! (science documentary: 57 min.)** Suree Towfignia, Producer. Prairies Dust Films **(with D. White Plume, E. Yellow Thunder, T. Cardinal, & others).** www.cryingearthriseup.com/

- 2016 HOT WATER: The Uranium Industry's Dirty Little Secret (science documentary: 80 mins.)** Lizabeth Rogers and Elizabeth Kucinich, Producers. Rogers Entertainment Group/Indican Pictures **(with C. White Face, H. Caldicott, A. Gunderson, K. Kearfott, J. Stone, & D. Kucinich).** www.zerohotwater.com/

TELEVISION APPEARANCES

- 1996 RESTLESS PRAIRIE (science documentary: 60 min.)** Joe Turco, Producer. Science, Outreach, & Specials Unit, University of Nebraska-Lincoln Television. Broadcast on Nebraska Educational Television (NETV) Network. *12 min segment: Toadstool Park Trackway site and Fossil Conservation on the Oglala National Grassland (with W. B. Wells & D. A. Nixon).*

RADIO APPEARANCES

- 2008 SOUND OFF (KCSR Radio, Chadron, Nebraska: 30 min.)** “Our Water, Our Future: A Hard Look at the Dry Facts” (with Mr. Glen Price, landowner).
- COMMUNITY FOCUS (KCSR Radio, Chadron, Nebraska: 15 min.)** “Our Water, Our Future: A Hard Look at the Dry Facts”
- 2011 “Company wants to expand uranium mine in Nebraska panhandle” (NET Radio, Lincoln, Nebraska: 2 min.)** Featured program discussing benefits and concerns regarding ISL uranium mining in northwestern Nebraska <http://www.netnebraska.org/article/news/company-wants-expand-uranium-mine-nebraska-panhandle>

FIELD HANDBOOK DATA SHEETS

- 1998** Schoeneberger, P. J., D. A. Wysocki, E. C. Benham, & **H. E. LaGarry. *Miscellaneous***, pp. 7-1 to 7-14 in (P. J. Schoeneberger, D. A. Wysocki, E. C. Benham, & W. D. Broderson, compilers) *Field Book for Describing and Sampling Soils (Ver. 1.1)*. USDA Natural Resources Conservation Service, National Soil Survey Center, Lincoln NE.
- 2002** Schoeneberger, P. J., D. A. Wysocki, E. C. Benham, & **H. E. LaGarry. *Miscellaneous***, pp. 7-1 to 7-14 in (P. J. Schoeneberger, D. A. Wysocki, E. C. Benham, & W. D. Broderson, compilers) *Field Book for Describing and Sampling Soils (Ver. 2.1)*. USDA Natural Resources Conservation Service, National Soil Survey Center, Lincoln NE.

ILLUSTRATION CREDITS

- 1985 “Artist’s conception of a middle Ordovician life scene during Trenton (limestone) time. The orthocone cephalopod is similar to those found at the Clairmont Quarry.”** p. 297 in Van Diver, B. B. 1985. *Roadside Geology of New York*. Missoula, Montana, Mountain Press Publishing Company.
- 1996 “USGS quadrangles (solid lines) examined in the CSD open-file report by LaGarry and LaGarry, adjacent quadrangles also mapped, and federal lands of the Oglala National Grassland.”** p. 35 in Flowerday, C. A. 1996. *Fossil inventories yield geologic mapping, revision of the White River Group*. Resource Notes, 10:33-35.

PHOTOGRAPH CREDITS

- 1988 “Below: Each biological specimen found during the excavation was isolated from the majority of the surrounding sediment and was subsequently wrapped for removal to the laboratory. A portion of the pelvis of the stag-moose is seen in the center of the photo, and spruce logs in the foreground,”** p. 41 in Warren, R. E. & R. W. Graham. 1988. *Cervalces: an Ice Age discovery*. The Living Museum, 50(3):38-41.
- 1996 “A field party made up of CSD, UNL Geology, and UN State Museum geologists examine the Chamberlain Pass Formation near Toadstool Park in northern Sioux County. Observers are (from left) Leigh Anne LaGarry, CSD; Dennis Terry, UNL Geology; Dave Loope, UNL Geology; Dave Nixon, UN State Museum; Brant Wells, UNL Geology; and Jim Swinehart, CSD.”** p. 33 in Flowerday, C. A. 1996. *Fossil inventories yield geologic mapping, revision of the White River Group*. Resource Notes, 10:33-35.

- 2004 ***"The petrocalcic field tour led by SNR geoscientist Hannan LaGarry stops to look at the Box Butte Formation on the highway south of Marsland in the upper Niobrara River valley. Co-leader and former SNR soil scientist Phil Young (far right, crouching) talks to the group, which includes scientists from various Great Plains offices of the U. S. Natural Resources Conservation Service and from the NRCS National Soil Survey Center in Lincoln. SNR soil scientist Francis Belohlavy sits in the cab of the white pickup."*** p. 6 in Flowerday, C. A. 2004. SNR tour helps federal scientists solve soil classification riddle, saves money. Natural Resource Links, 4(4):1-12.

"An example of a calcic, not a petrocalcic, horizon near Marsland. White concretions show carbonate buildup. Marks on tape measure are every 10 centimeters." p. 6 in Flowerday, C. A. 2004. SNR tour helps federal scientists soil classification riddle, saves money. Natural Resource Links, 4(4):1-12.

BOOK COVERS

- 1998 ***"Fine-grained volcanoclastic rocks of the White River Group initially studied by N. H. Darton (1899) at the Pine Ridge escarpment in northwestern Nebraska."*** Terry, D. O., Jr., H. E. LaGarry, & R. M. Hunt, Jr. (eds.). 1998. Depositional Environments, Lithostratigraphy, and Biostratigraphy of the White River and Arikaree Groups (Late Eocene to Early Miocene, North America). Geological Society of America Special Paper 325, 216 pp.

NEWSPAPER ARTICLES

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NEBRASKA GEOLOGICAL SURVEY OPEN-FILE MAPS

Table 1. Open-file (OFM) and open-file digital (OFDM) maps from the Alliance 1:250,000 Quadrangle available from the Nebraska Geological Survey (University of Nebraska-Lincoln Conservation & Survey Division, School of Natural Resources). Digital maps were produced by the Department of Geosciences at Fort Hays State University, supervised by R. Lisichenko, J. Heinrichs, G. Liggett, and K. R. Neuhauser. All maps are Nebraska quadrangles except as noted.

Map Name ¹	Date ²	Map No. ³	Authors
Sherrill Hills (WY-NE)	1997	53	LaGarry & LaGarry
Story	1997	54	LaGarry & LaGarry
(digital version 1.1)	2001	54D	LaGarry, LaGarry, & Swinehart
Story NE	1997	55	LaGarry & LaGarry
(digital ver. 1.1)	2001	55D	LaGarry, LaGarry, & Swinehart
Lone Tree Ranch	1997	56	LaGarry & LaGarry
(digital ver. 1.1)	2001	56D	LaGarry, LaGarry, & Swinehart
Wayside	1997	57	LaGarry & LaGarry
(digital ver. 1.1)	2001	57D	LaGarry, LaGarry, & Swinehart
Bohemian Creek	1997	58	LaGarry & LaGarry
(digital ver. 1.1)	2001	58D	LaGarry, LaGarry, & Swinehart
Kirtley (WY-NE)	1997	59	LaGarry & LaGarry
Warbonnet Ranch	1997	60	LaGarry & LaGarry
(digital ver. 1.1)	2001	60D	LaGarry, LaGarry, & Swinehart
Bodarc	1997	61	LaGarry & LaGarry
(digital ver. 1.1)	2001	61D	LaGarry, LaGarry, & Swinehart
Five Points	1997	62	LaGarry & LaGarry
(digital ver. 1.1)	2001	62D	LaGarry, LaGarry, & Swinehart
Whitney	1997	63	LaGarry, LaGarry, & Swinehart
(digital version 1.1)	2001	63D	LaGarry, LaGarry, & Swinehart
Trunk Butte	1997	64	LaGarry, LaGarry, & Swinehart
(digital version 1.1)	2001	64D	LaGarry, LaGarry, & Swinehart
Chadron West	1997	65	LaGarry, LaGarry, & Swinehart
(digital version 1.1)	2001	65D	LaGarry, LaGarry, & Swinehart
Crawford	1998	66	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	66D	LaGarry, LaGarry, & Swinehart
Crow Butte	1998	67	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	67D	LaGarry, LaGarry, & Swinehart
Chimney Butte	1998	68	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	68D	LaGarry, LaGarry, & Swinehart
Coffee Mill Butte	1998	69	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	69D	LaGarry, LaGarry, & Swinehart
Dead Mans Creek	1998	70	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	70D	LaGarry, LaGarry, & Swinehart
Belmont	1998	71	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	71D	LaGarry, LaGarry, & Swinehart
Coffee Mill Butte SW	1998	72	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	72D	LaGarry, LaGarry, & Swinehart
Coffee Mill Butte SE	1998	73	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	73D	LaGarry, LaGarry, & Swinehart
Van Tassell (WY-NE)	1999	74	LaGarry, LaGarry, & Swinehart

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Table 1 (continued).

Map Name¹	Date²	Map No.³	Authors
Harrison West (digital version 1.1)	1999 2002	75 75D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Harrison East (digital version 1.1)	1999 2002	76 76D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Andrews (digital version 1.1)	1999 2002	77 77D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Smiley Canyon (digital version 1.1)	1999 2002	78 78D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Van Tassell SE (WY-NE)	1999	79	LaGarry, LaGarry, & Swinehart
Harrison SW (digital version 1.1)	1999 2002	80 80D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Harrison SW (digital version 1.1)	1999 2002	81 81D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Kyle Creek (digital version 1.1)	1999 2002	82 82D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Glen (digital version 1.1)	1999 2002	83 83D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Isinglass Buttes (digital version 1.1)	2000 2003	84 84D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Chadron NE (digital version 1.1)	2000 2003	85 85D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Chadron East (digital version 1.1)	2000 2003	86 86D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Bordeaux (digital version 1.1)	2000 2003	87 87D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Kings Canyon/Chadron 3 NW (digital version 1.1)	2000 2003	88 88D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Hay Springs Creek/Chadron 3 NE (digital version 1.1)	2000 2003	89 89D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Sand Canyon West/Chadron 3 SW (digital version 1.1)	2000 2003	90 90D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Sand Canyon East/Chadron 3 SE	2000	91	LaGarry, Swinehart, & LaGarry
Beaver Wall	2001	92	LaGarry, Swinehart, & LaGarry
Whiteclay (digital version 1.1)	2001 2005	93 93D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Whiteclay SW (digital version 1.1)	2001 2004	94 94D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Whiteclay SE (digital version 1.1)	2001 2005	95 95D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Hay Springs (digital version 1.1)	2001 2004	96 96D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Hay Springs NE (digital version 1.1)	2001 2005	97 97D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart

Continued on next page

Table 1 (continued).

Map Name¹	Date²	Map No.³	Authors
Hay Springs SW	2001	98	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2004	108D	LaGarry, LaGarry, & Swinehart Hay
Springs SE	2001	99	LaGarry, Swinehart, & LaGarry
Montrose	2001	108	LaGarry & LaGarry
(digital version 1.1)	2001	108D	LaGarry, LaGarry, & Swinehart
Orella	2001	109	LaGarry & LaGarry
(digital version 1.1)	2001	109D	LaGarry, LaGarry, & Swinehart
Wolf Butte	2001	110	LaGarry & LaGarry
(digital version 1.1)	2001	110D	LaGarry, LaGarry, & Swinehart
Roundtop	2001	111	LaGarry, LaGarry, & Swinehart
(digital version 1.1)	2001	111D	LaGarry, LaGarry, & Swinehart
Horn	2001	112	LaGarry & LaGarry
(digital version 1.1)	2001	112D	LaGarry, LaGarry, & Swinehart
Clinton NW	2002	113	LaGarry, Swinehart, & LaGarry
Clinton NE	2002	114	LaGarry, Swinehart, & LaGarry
Clinton SW	2002	115	LaGarry, Swinehart, & LaGarry
Clinton	2002	116	LaGarry, Swinehart, & LaGarry
Rushville SE	2002	117	LaGarry, Swinehart, & LaGarry
Rushville SW	2002	118	LaGarry, Swinehart, & LaGarry
Rushville NE	2002	119	LaGarry, Swinehart, & LaGarry
Rushville	2002	120	LaGarry, Swinehart, & LaGarry
Gordon NW	2003	121	LaGarry, Swinehart, & LaGarry
Hog Island	2003	122	LaGarry, Swinehart, & LaGarry
Gordon	2003	123	LaGarry, Swinehart, & LaGarry
Gordon SE	2003	124	LaGarry, Swinehart, & LaGarry
South of Gordon	2003	125	LaGarry, Swinehart, & LaGarry
Coburn Canyon	2003	126	LaGarry, Swinehart, & LaGarry
Bovee Valley West/Rushville 3 SW	2003	127	LaGarry, Swinehart, & LaGarry
Bovee Valley East/Rushville 3 SE	2003	128	LaGarry, Swinehart, & LaGarry
Whistle Creek NW	2004	129	LaGarry, Swinehart, & LaGarry
Whistle Creek NE	2004	130	LaGarry, Swinehart, & LaGarry
Marsland NW	2004	131	LaGarry, Swinehart, & LaGarry
Marsland	2004	132	LaGarry, Swinehart, & LaGarry
Box Butte Reservoir West	2004	133	LaGarry, Swinehart, & LaGarry
Box Butte Reservoir East	2004	134	LaGarry, Swinehart, & LaGarry
Box Butte NW	2005	137	LaGarry, Swinehart, & LaGarry
Box Butte NE	2005	138	LaGarry, Swinehart, & LaGarry
Skunk Lake NW	2005	139	LaGarry, Swinehart, & LaGarry
Skunk Lake NE	2005	140	LaGarry, Swinehart, & LaGarry
Smith Lake	2005	141	LaGarry, Swinehart, & LaGarry

Continued on next page

Table 1 (continued).

Map Name¹	Date²	Map No.³	Authors
Twin Lakes NE	2005	142	LaGarry, Swinehart, & LaGarry
Dolly Warden Lake	2005	143	LaGarry, Swinehart, & LaGarry
Billys Lake	2005	144	LaGarry, Swinehart, & LaGarry

Notes for Table 1:

1. Where two names are given, the former name is listed first, and the current name second
2. Date indicates when map went on open file.
3. Numbers were assigned by the Conservation & Survey Division, and "D" denotes a digital version

Table 2. Open-file (OFM) maps from the O'Neill 1:250,000 Quadrangle available from the Nebraska Geological Survey (University of Nebraska-Lincoln Conservation & Survey Division, School of Natural Resources). All maps are Nebraska quadrangles except as noted.

Map Name	Date	Map No.	Authors
Meadville NW	in review	pending	LaGarry, LaGarry, & Diffendal
Meadville NE	in review	pending	LaGarry, Diffendal, & LaGarry
Springview NW	in review	pending	LaGarry, Diffendal, & LaGarry
Burton	in review	pending	LaGarry, Diffendal, & LaGarry
Mills	in review	pending	LaGarry, Diffendal, & LaGarry
Jamison	in review	pending	LaGarry, Diffendal, & LaGarry
Meadville	in review	pending	LaGarry, Diffendal, & LaGarry
Huddle Table	in review	pending	LaGarry, Diffendal, & LaGarry
Springview	in review	pending	LaGarry, Diffendal, & LaGarry
Springview SE	in review	pending	LaGarry, Diffendal, & LaGarry
Jamison SW	in review	pending	LaGarry, Diffendal, & LaGarry
Mariaville	in review	pending	LaGarry, Diffendal, & LaGarry
Ainsworth NW	in review	pending	LaGarry, Diffendal, & LaGarry
Dutch Creek	in review	pending	LaGarry, Diffendal, & LaGarry
Bassett NW	in review	pending	LaGarry, Diffendal, & LaGarry
Riverview	in review	pending	LaGarry, Diffendal, & LaGarry
Carns	in review	pending	LaGarry, Diffendal, & LaGarry
Newport NE	in review	pending	LaGarry, Diffendal, & LaGarry

ARCHIVED FIELD NOTES

Table 3. Field notes archived at the Conservation & Survey Division of the University of Nebraska-Lincoln. All compilations are color .jpg files on CDROM. Copies of these notes also reside with the author(s).

Author(s)	Date ¹	Vol. ²	Pages	Compiler (date)
LaGarry, H. E.	1985-1986	1	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1986-1987	2	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1987-1988	3	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1987-1988	3B	45 ³	R. W. Vasek (2003)
LaGarry, H. E.	1987-1988	4	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1988-1989	5	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1988-1989	6	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1989-1992	7	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1992-1993	8	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E.	1993-1994	9	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E.	1994-1995	10	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E.	1994-1995	11	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E.	1994-1995	12	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. Armantrout	1994-1995	12B	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1994-1995	13	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1995-1996	14	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1996-1997	15	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1996-1997	16	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	17	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	18	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	18B	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	19	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	20	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	21	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	22	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	23	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	24	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	25	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	26	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	27	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	28	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	29	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	30	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	31	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	32	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	34	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2001-2002	38	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2001-2002	40	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2001-2002	42	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2001-2002	44	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2002-2003	45	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2002-2003	46	167 ^{3,4}	R. W. Vasek (2003)

Notes for Table 3:

1. Includes notes archived for the Nebraska National Forest (1991-1995) and the U. S. Geological Survey STATEMAP Program (1996-2006).
2. Volume numbers were assigned by the authors.
3. Includes inserts (typically other peoples' published work used as reference material).
4. Includes maps (original field maps and compilations of original maps at various scales).